AACTCCTTCTACACCCGAAAGGAATCCTATGACTATCAGGCAGCCTGTGCCCCTCAGCCTCCTGGGAACC TGCTGCCGCCTGGTCCTTATTCCAGCAGCTACTCTATGGTCTCATCTATCACAGCTGGTTCCAGGCAGAC CCGGCAGAAGCTGAGGCCAGCCCCGAGACGCCGAGAGCAGCTGCGTCATGAAACAGACCCAGTACTACT TCGGCTCGGTGAACGCATCCTATAATGCCATCATTGACTGCGGAAACTGCAGCAGGCTGTTCCATGCGCA GAGACTGACCAACACCAATCTCCTGTTCGTGGTGGCCGAGAAGCCGCTGTGCAGCCAGTGCGAGGCGGGC CGGCTGCTGCAGAAGGAGACACACTCGGACGCCCGGAGCAGTGTGAGCTGGTGCAGAGACCGAGATACC GAAGAGGTCCGCACATCTGTTTTGACTACAATGCGACGGAAGATACCTCAGACTGTGGCCGCGGAGCCTC $\tt CTTCCCTCCGTCGCCGCCTTTGCTTCCTTGCAGCTTTTGCTCCTCCTGGGCCTGCCACCTCGGCCG$ GCCTTGGCCTCCTAGCCTTTCGCTCACCCTCCCATTCCACATTCCCCAATCTAGAGCCTTTGGCCACTCTC TCCTGAAGGACCTGGGTCCCTTCCCCCGGAGCCTGTGCCTTGGGGCAGGGGAACCCCAAAGTAAGGTGCC ATGGTGTTTGGCACTCAAGATTTAGCTCACCCTTGAACTGTCCAAGTGCCCGCAGTCCCTAGACTCATCC AAACTTACCTTCTCGGGGGAAAAAAAAAGGAAAGGTAATAGTGAGAGATTCGGGGGGCACCCCTC CCCATTGGTTTCTGGCCCTTTCAGGCTACAACCCCCCAGCCTTGCAGGTGTCAGAACAGTCTCACAATGA CATCAGTTTAGACACATGCCATATACACTTGGATCTCTGAGAGCAGAAACCCAACTCTCACTAGACATAC CTGTGATGGAACACACAAACAGACACGCACCATGGGGGGTGGCCCACAAAGCCTTACACAAGGCGAGATG TCAATGAAGGGGTTGGCCTGTGTTCCATCTCTGCTCACCTCTGCCTCTACTCTGAGATGCAGCCTGGC TTCACCCCTAGCCACCAGTGTCCCCAAGTGCCCCTCACCCTGCCAGGTGCTCATTGTAACCATCGTTCAC CAGTGTCCGGCCCTAGTAGGACCACACATCACTGCCTGAACTCCTTTGGCAGAAGAACCCCACCAGACA CACATGTCTAACCAACCGTACTGCACACACAGAGGCTGGACCTGGGACACATCTCTTTACACCTTTCATT GTTTAAAGACAAATGAAACCAGACAAAACAATCCCCATCAGGTAGTTGTCCAACCCCCAGCTGGGTTCAA $\verb|CCCTCTCATTACCCACCTGACCTAGCTGTCCCCTTACTGTGGGGGGACTTGGGGGGCCATTTCCTTT| \\$ GAGAAACTTTGTAAAATATTGTGTGTGTGTGATTCCTTGTAAAATATTTTCAAATGGTTTATTACAGAAGAT CAGTTATTAAATAATGTTCATATTTTCACTTC (SEQ ID NO:1)

FIGURE 1

NSFYTRKESYDYQAACAPQPPGNLGAAPRGVFVPTIADFLNLAWWTSAAAWSLFQQLLYGLIYH SWFQADPAEAEGSPETRESSCVMKQTQYYFGSVNASYNAIIDCGNCSRLFHAQRLTNTNLLFVV AEKPLCSQCEAGRLLQKETHSDGPEQCELVQRPRYRRGPHICFDYNATEDTSDCGRGASFPPSL GVLVSLQLLLLLGLPPRPQPQVHSFAASRHL (SEQ ID NO:2)

FIGURE 2

3/4

underlin d = deleted in targeting construct
BOLD = sequence flanking Neo insert in targeting construct

AACTCCTTCTACACCCGAAAGGAATCCTATGACTATCAGGCAGCCTGTGCCCCTCAGCCT $\textbf{CCTGGGAACCTGGGTGCTGCAC}\underline{CCCGGGGTGTCTTTGTGCCCACCATTGCAGATTTCCTT}$ <u>AACTTGGCCTGGTGGACCTCTGCTGCCGCCTGGTCCTTATTCCAGCAGCTACTCTATGGT</u> CGCGAGAGCAGCTGCGTCATGAAACAGACCCAGTACTACTTCGGCTCGGTGAACGCATCC TATAATGCCATCATTGACTGCGGAAACTGCAGCAGGCTGTTCCATGCGCAGAGACTGACC AACACCAATCTCCTGTTCGTGGTGGCCGAGAAGCCGCTGTGCAGCCAGTGCGAGGCGGGC CGGCTGCTGCAGAAGGAGACACACTCGGACGGCCCGGAGCAGTGTGAGCTGGTGCAGAGA CCGAGATACCGAAGAGGTCCGCACATCTGTTTTGACTACAATGCGACGGAAGATACCTCA ${\tt GACTGTGGCCGGGAGCCTCCTTCCCTCCGTCGCTGGGCGTCTTGGTTTCCTTGCAGCTT}$ TTGCTCCTCGGGCCTGCCACCTCGGCCGCAGCCTCAAGTCCACTCCTTCGCTGCCTCT CGCCACCTCTGAGCGACCCACACACACATCATACCCCCGCCTTGGCCTCCTAGCCTTT CGCTCACCTCCCATTCCACATTCCCCAATCTAGAGCCTTGGCCACTCTCTCCTGAAGGA CCTGGGTCCCTTCCCCCGGAGCCTGTGCCTTGGGGGAGGGGGAACCCCAAAGTAAGGTGCC ATGGTGTTTGGCACTCAAGATTTAGCTCACCCTTGAACTGTCCAAGTGCCCGCAGTCCCT AGACTCATCCCCGTGGGCTAGGACAGGACGCCCACTAGTACTGATGCCAAACCAGGCCTCC ACCGACCCACCTGCCTGGAGATTTCCTCTATGTAGGCAACCCTGCCACTGCTGGGCACCT GAAAGATGGTAATAGTGAGAGATTCGGGGGGGCACCCCCTCCCCATTGGTTTCTGGCCCTT TCAGGCTACAACCCCCCAGCCTTGCAGGTGTCAGAACAGTCTCACAATGACATCAGTTTA GACACATGCCATATACACTTGGATCTCTGAGAGCAGAAACCCAACTCTCACTAGACATAC CTGTGATGGAACACACAAACAGACACGCACCATGGGGGGTGGCCCACAAAGCCTTACACA AGGCGAGATGTCAATGAAGGGGTTGGCCTGTGTTGTTCCATCTCTGCTCACCTCTGCCTCT ACTCTGAGATGCAGCCTGGCTGATCCTCCCATCTCTAAAACTGAATGTCAAACCGTGCCA AATGCTGGGGGGGGGGGAGACCTCTCTGTTTCACCCCTAGCCACCAGTGTCCCCAAGTG $\verb|CCCCTCACCCTGCCAGGTGCTCATTGTAACCATCGTTCACCAGTGTCCGGCCCCTAGTAG|\\$ GACCACACATCACTGCCTGAACTCCTTTGGCAGAAGAACCCCACCAGACATTGAGACATT GAACACCCTTGCACCATGCACATGTCTAACCAACCGTACTGCACACAGAGGCTGGA CCTGGGACACATCTCTTTACACCTTTCATTCTGTCATTTCTCCCAAAGGCATCGTAACTT CATGATGTGTGCCCAGCCTGGATGTCAGCTGTGTCCTGTGGGGGGCGTGTGTAACTGTA AAAATAAATGTATATTTTAAGTTTAAAGACAAATGAAACCAGACAAAACAATCCCCATCA GGTAGTTGTCCAACCCCCAGCTGGGTTCAACCCTCTCATTACCCACCTGACCTAGCTGTC GTAAAATATTGTGTGTGTGATTCCTTGTAAAATATTTTCAAATGGTTTATTACAGAAGAT CAGTTATTAAATAATGTTCATATTTTCACTTC

FIGURE 3

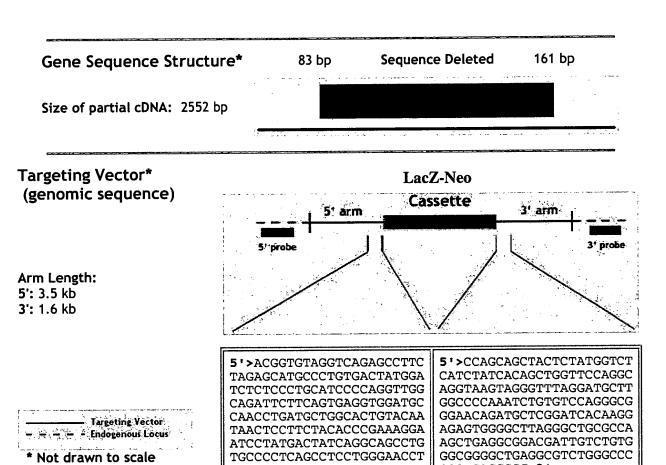


FIGURE 4

GGGTGCTGCAC<3'

(SEQ ID NO:3)

CGCAGACCCGG<3'

(SEQ ID NO:4)